

ABSTRACT OF THE DISCLOSURE

The invention includes an array controlling unit 5 for writing predetermined data to and reading it out from a disk and also conducting operational processing on this data, which array controlling unit 5 has a data dividing section 7 for dividing the predetermined data into at least two data items and also generating parity data based on this predetermined data, a plurality of cache modules 9, 10, and 11 for temporarily storing these divided data items and the parity data respectively, and a data combining section 8 for repairing the divided data item stored in one of these cache modules, if it fails, using the other divided data items and the parity data and also combining the divided data item.